



A. CRIPPLE CREEK. LOOKING WEST FROM GOLD HILL.

The Midget and Conundrum mines are in the foreground and Mount Pisgah is in the background.

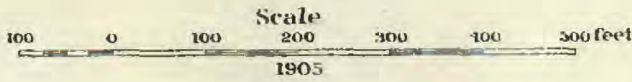


B. CRIPPLE CREEK. LOOKING NORTHEAST.

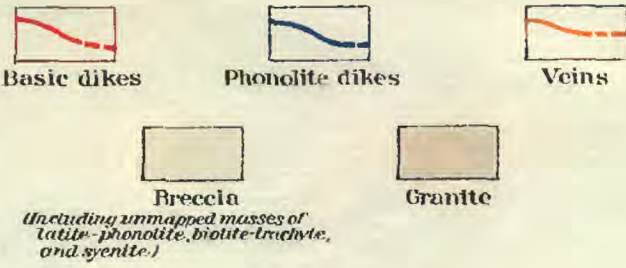
The partly wooded knob on the left is Rhyolite Mountain. Just beyond the town are Mineral and Carbonate hills and in the background is Pikes Peak.

PLAN OF PART OF THE UNDERGROUND WORKINGS
OF THE
BATTLE MOUNTAIN MINES
SHOWING VEIN SYSTEMS AND APPROXIMATE CONTOURS
ON THE GRANITE-BRECCIA CONTACT

By F.L. Ransome



LEGEND





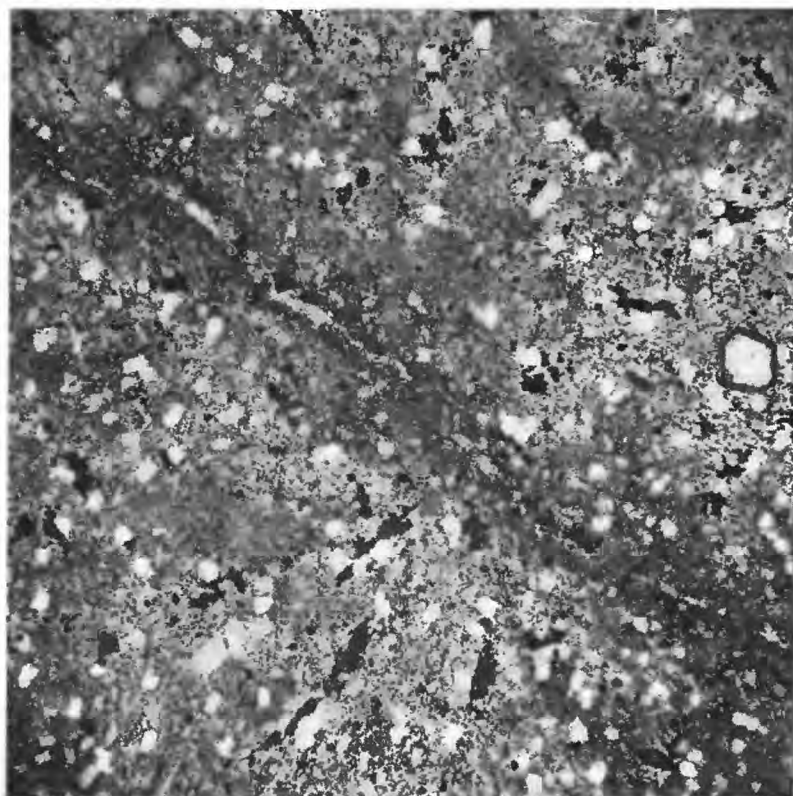
A. VICTOR, FROM SQUAW MOUNTAIN.

The shaft house of the Gold Coin mine is in the left foreground, and that of the St. Patrick mine in the middle-ground.

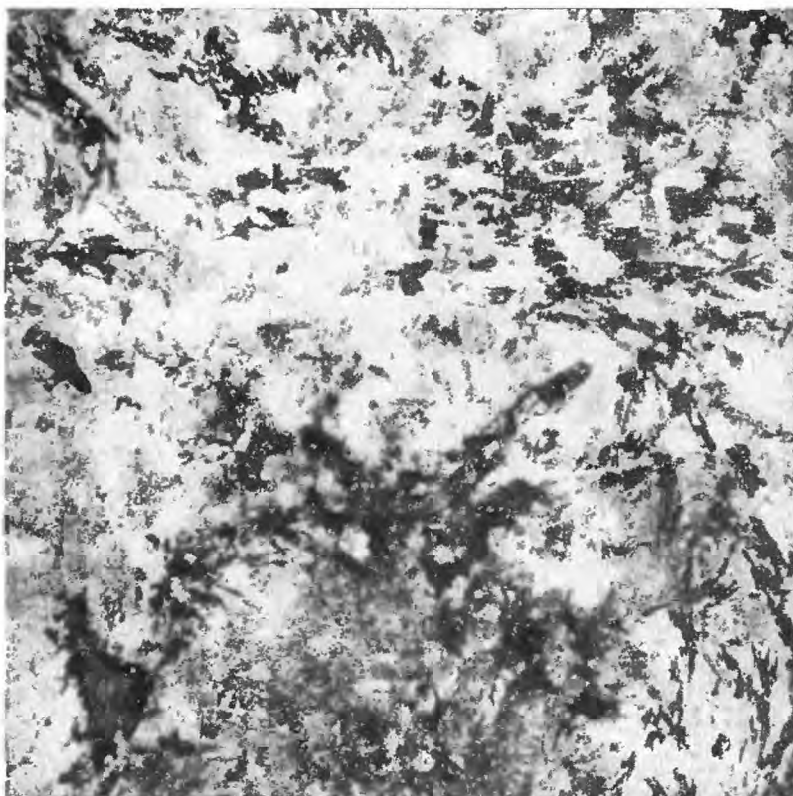


B. BATTLE MOUNTAIN MINES, FROM SQUAW MOUNTAIN.

Goldfield is in the distance, with Big Bull Mountain and Pikes Peak on the sky line.



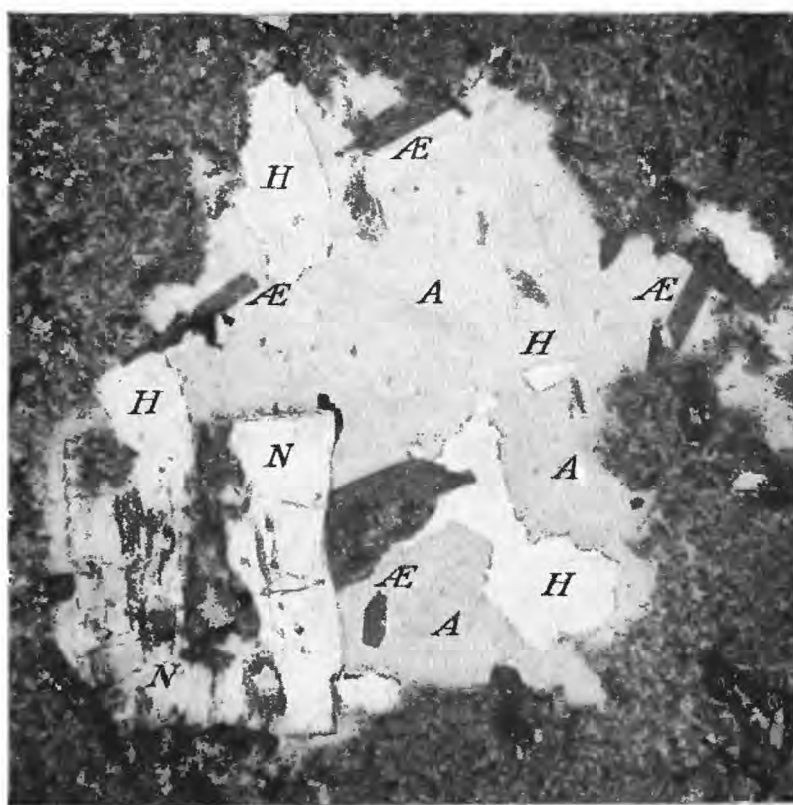
A



B

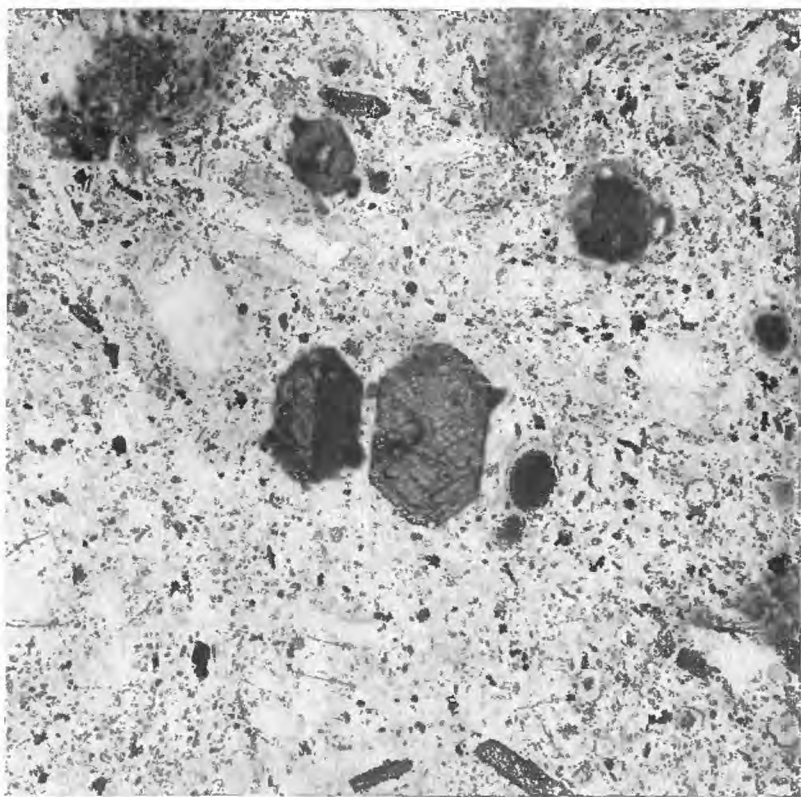


C



D

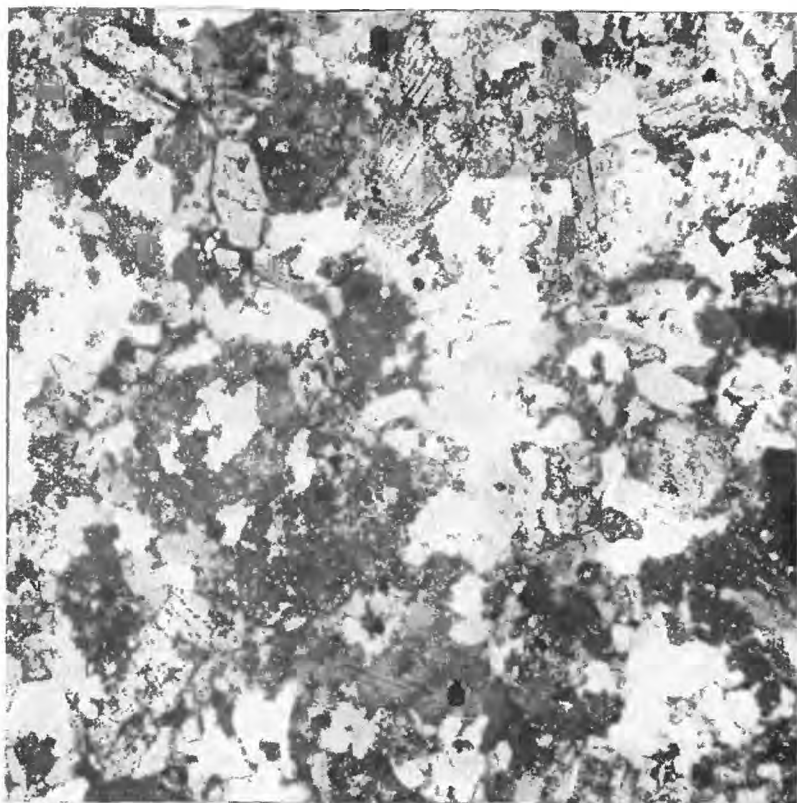
PHOTOMICROGRAPHS OF PHONOLITE.



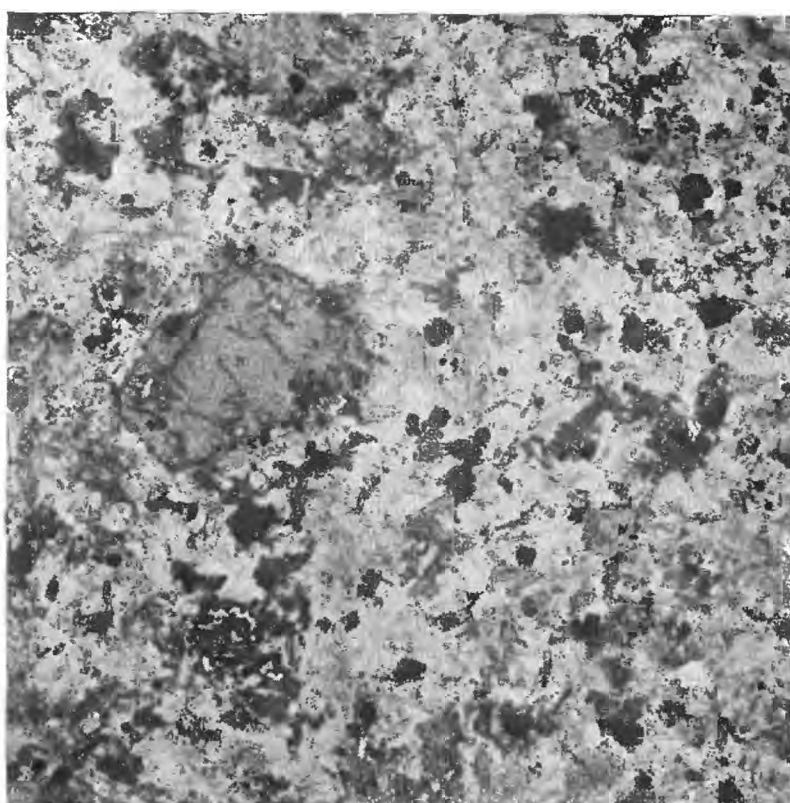
A



B

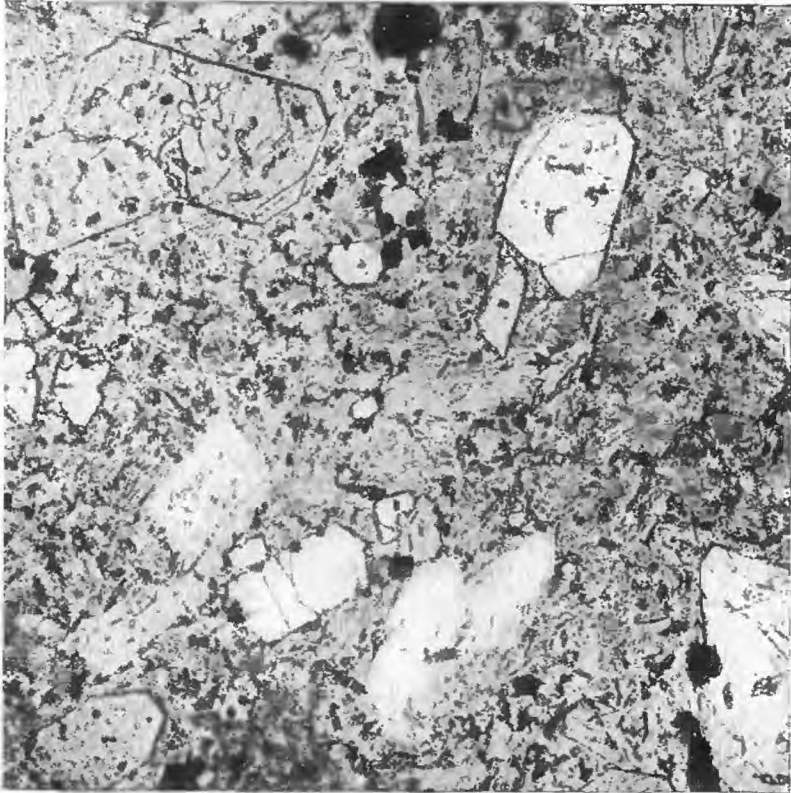


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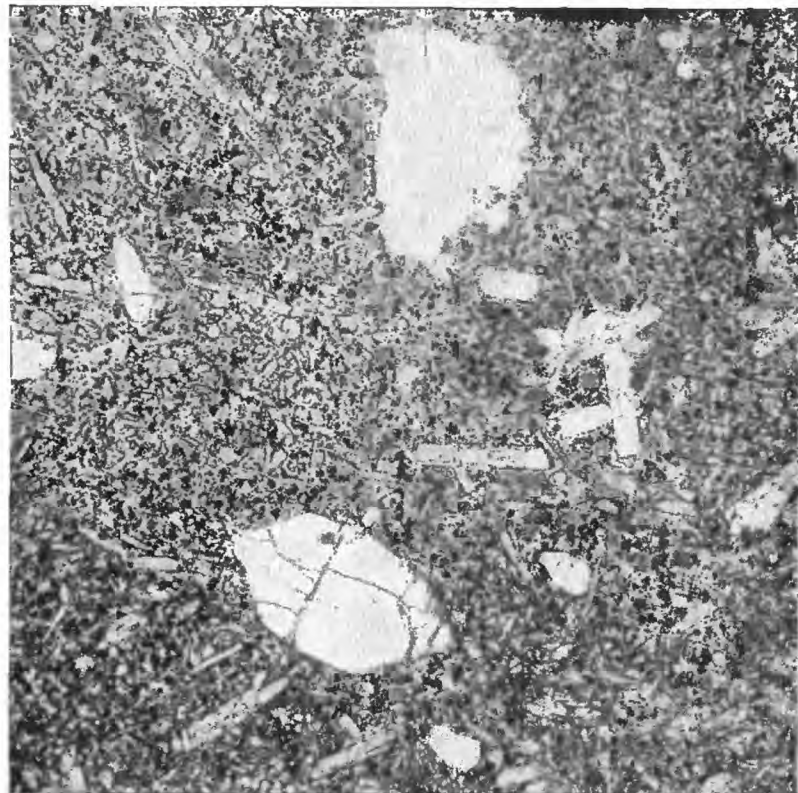


D

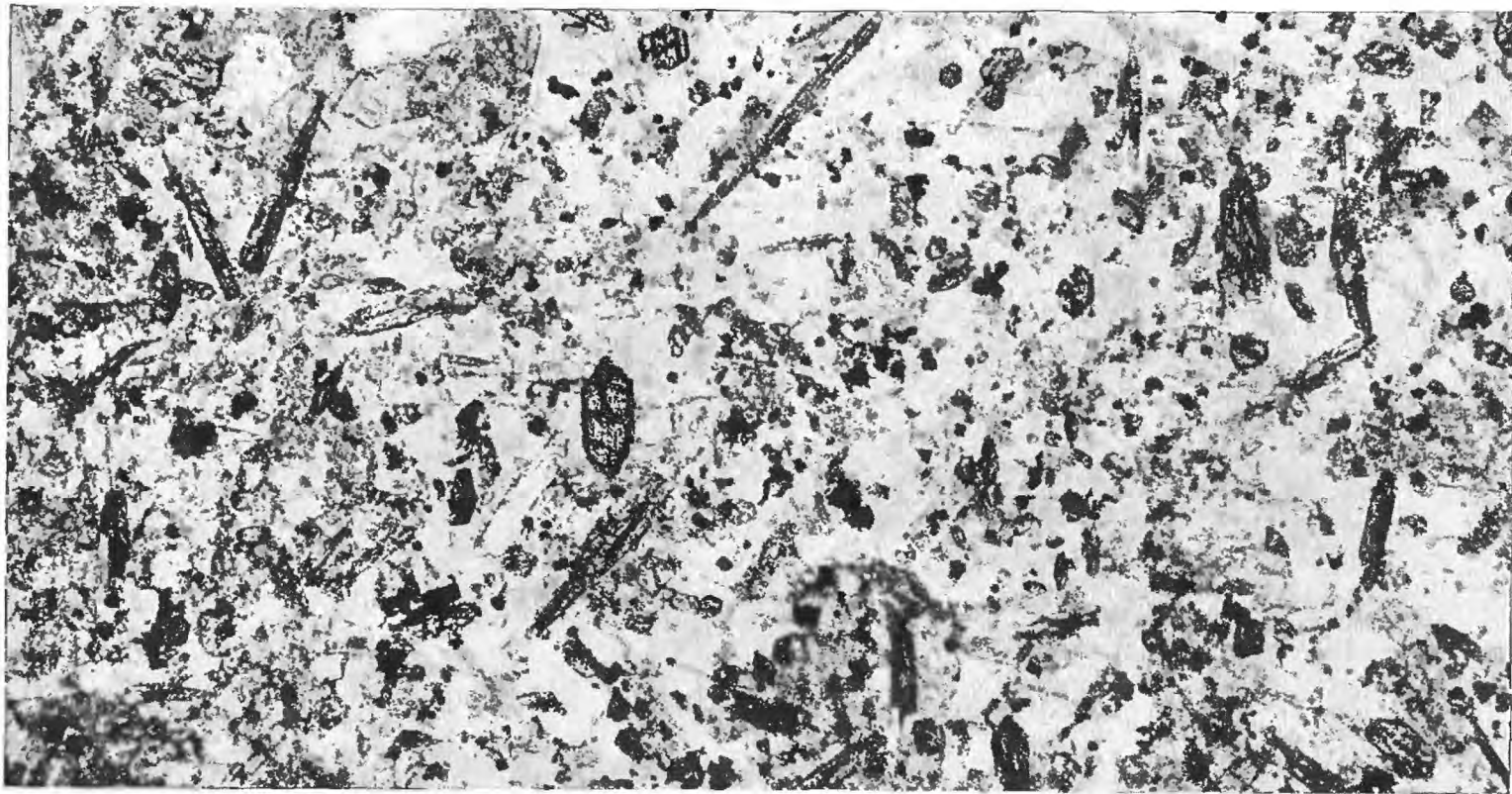
PHOTOMICROGRAPHS OF LATITE-PHONOLITE, SYENITE, AND TRACHYDOLERITE.



A



B

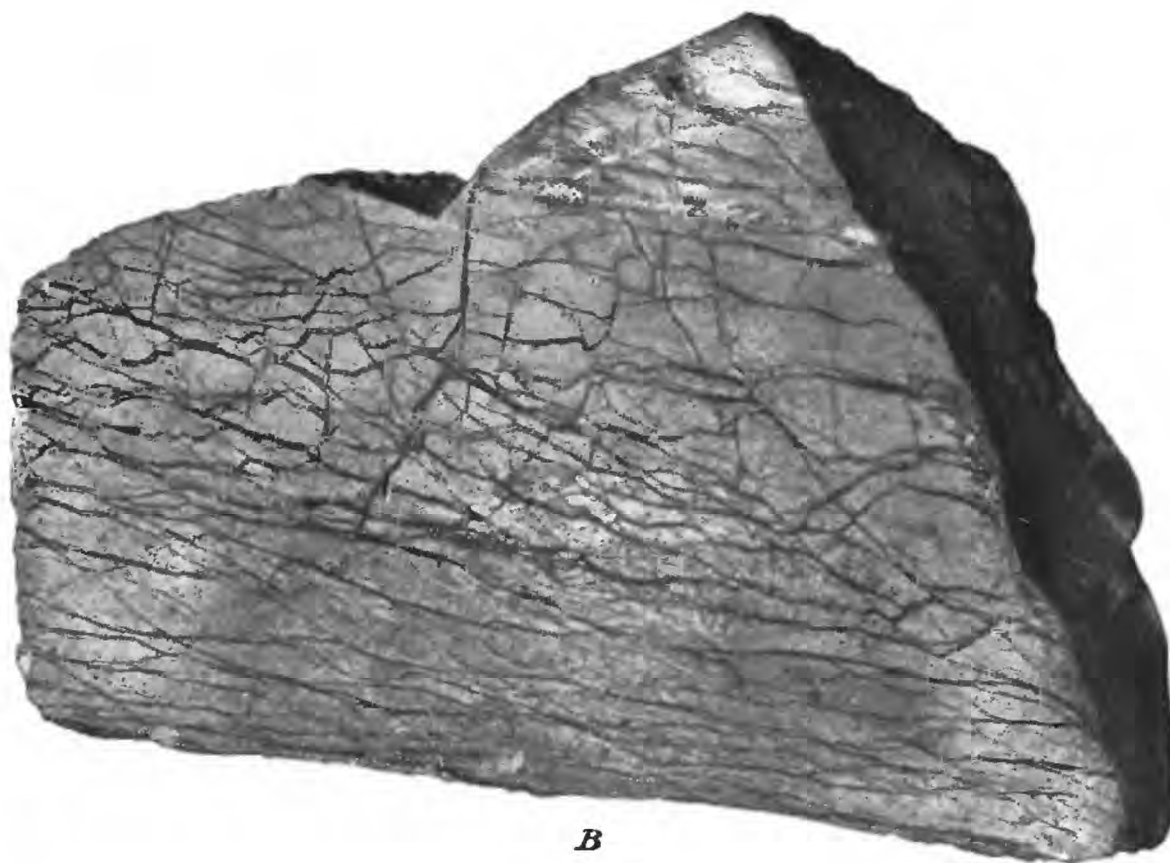


C

PHOTOMICROGRAPHS OF TRACHYDOLERITE, MONCHIQUITE, AND VOGESITE.



A



B

VEIN STRUCTURE, CONUNDRUM MINE.

Pieces of basic dike showing fluorite veinlets; pyrite disseminated throughout the rock.



A

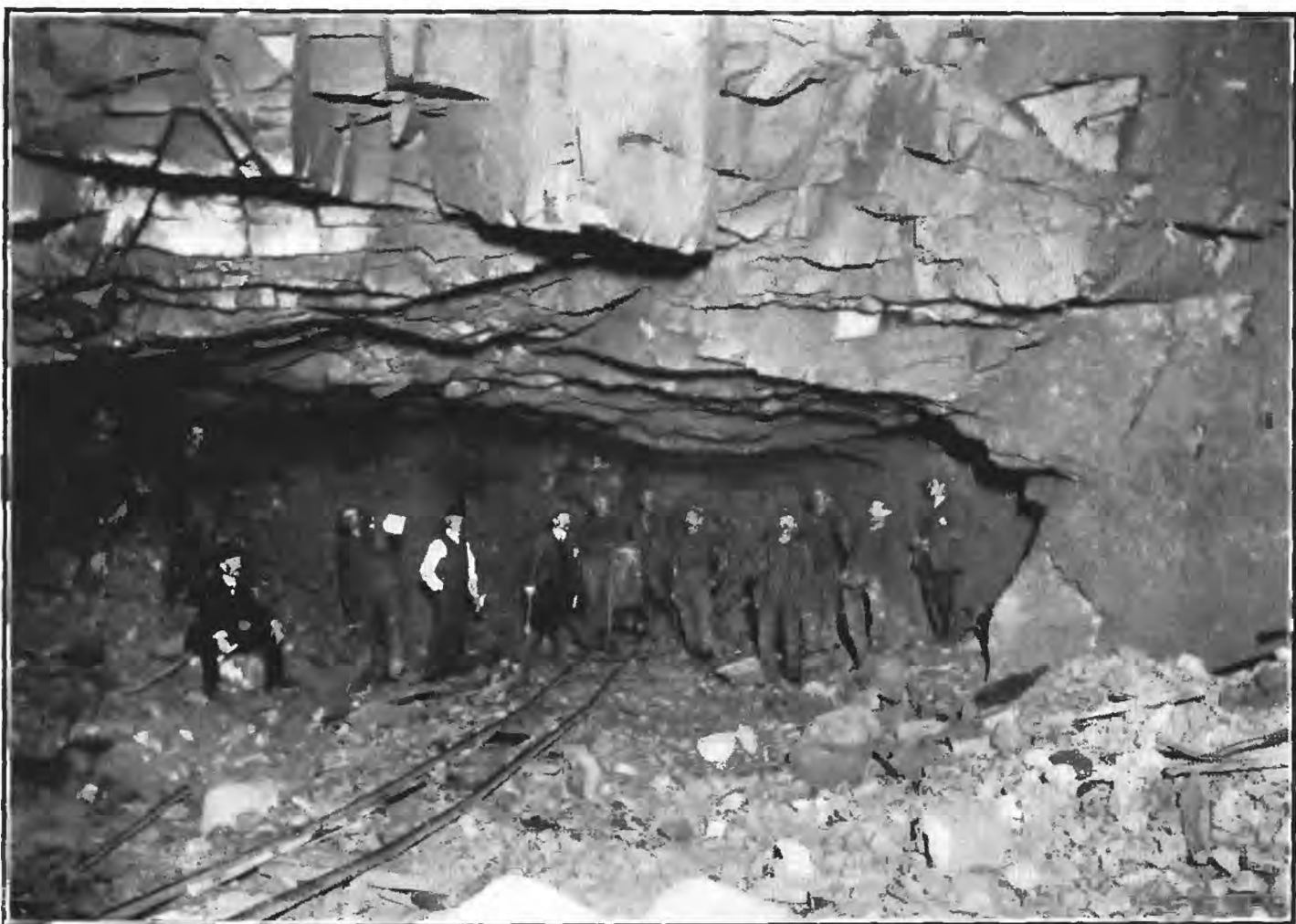


B

VEIN STRUCTURE, PORTLAND MINE. SHOWING SHEETING OF BRECCIA.
A, North face of No. 3 Captain vein, level 5; *B*, north face of No. 6 Captain vein, level 6.



A



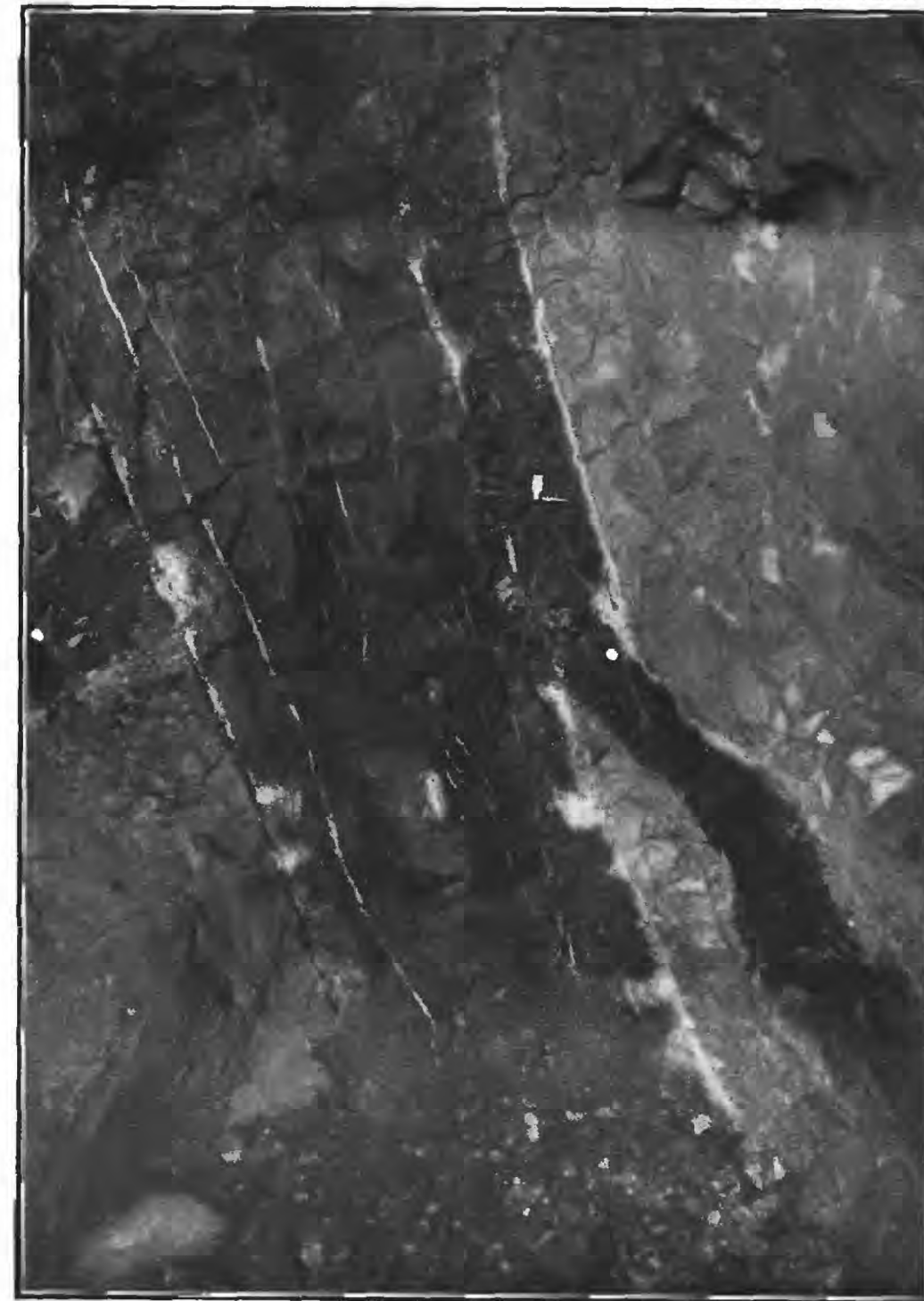
B

VEIN STRUCTURE, LEVEL 4, PORTLAND MINE.

- A. Stope on No. 5 Captain vein, showing width of ore.
 B. Stope on Nos. 4 and 5 Captain veins, showing wide sheeting, scarcely distinguishable from ordinary jointing.



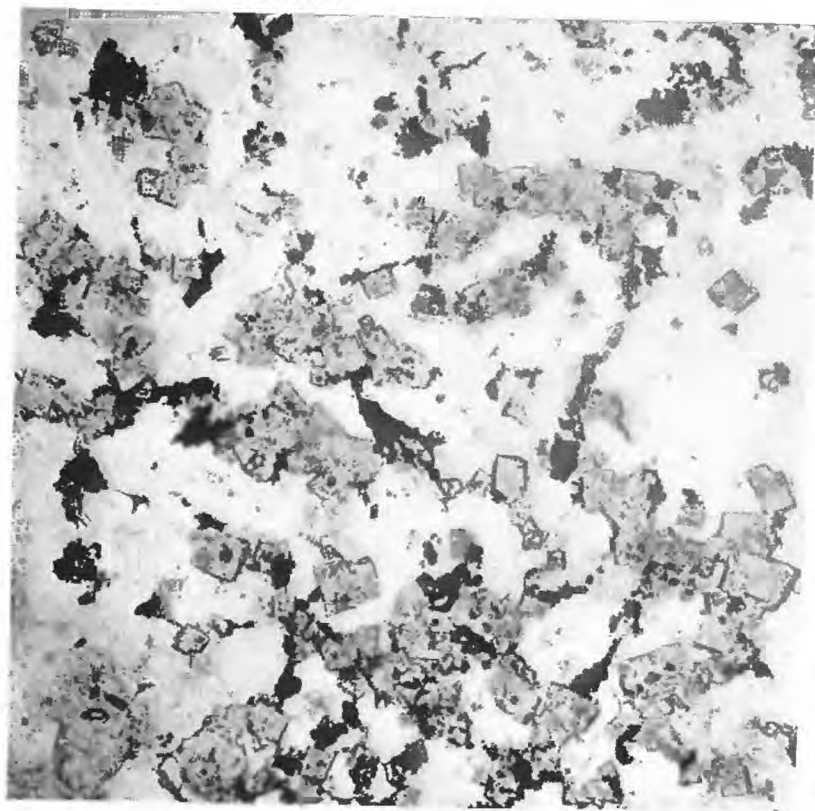
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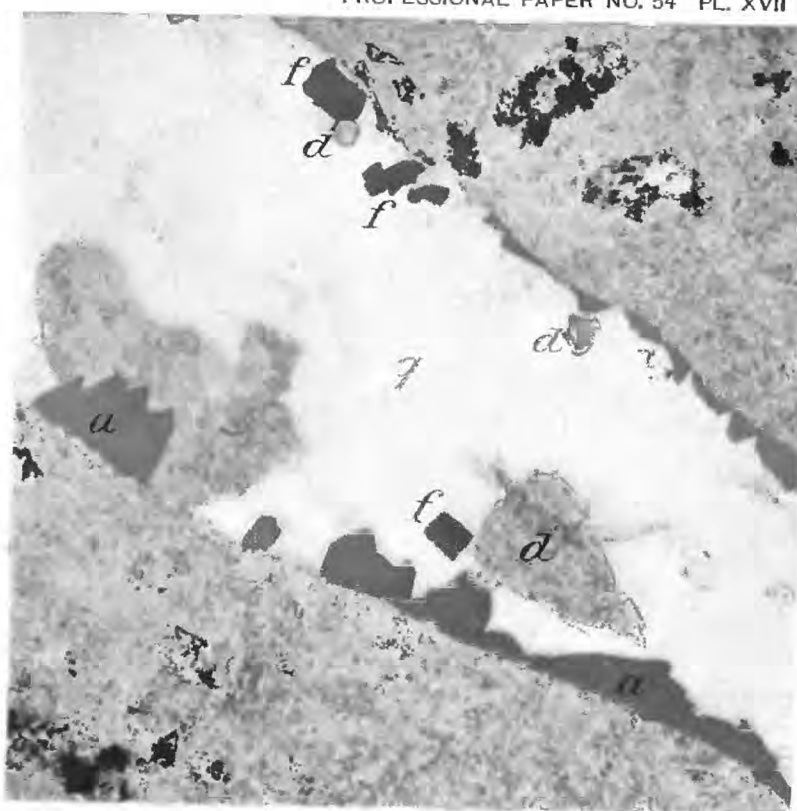
B

VEIN STRUCTURE

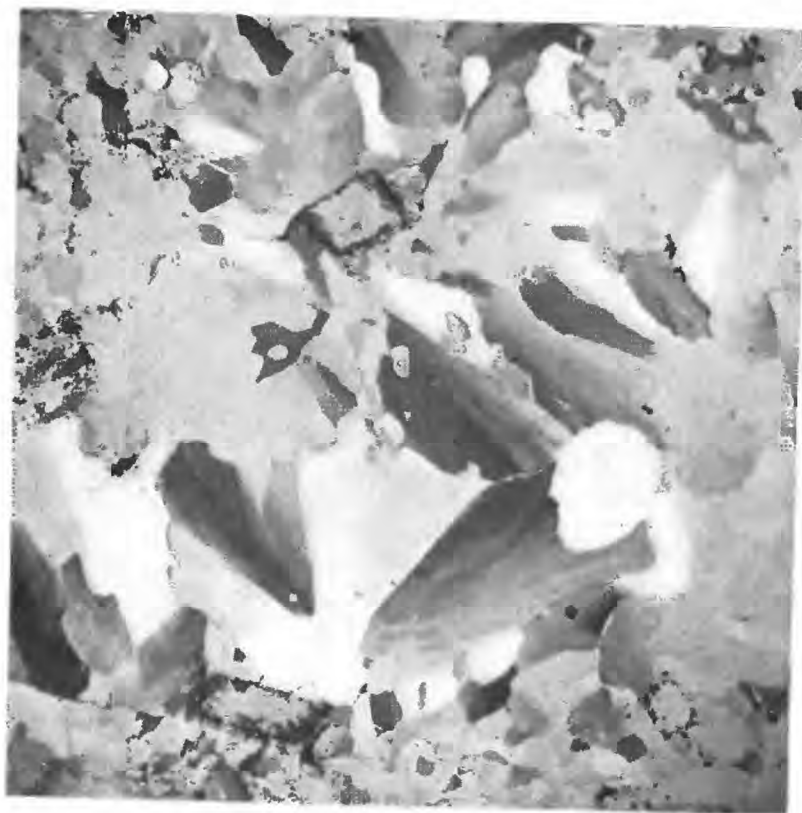
- A. Surface workings, showing Anaconda vein, a regular and narrow sheeted zone in breccia.
 B. Basic dike, Portland mine, level 5, showing platy parting; seams in this case are filled with calcite and carry no value.



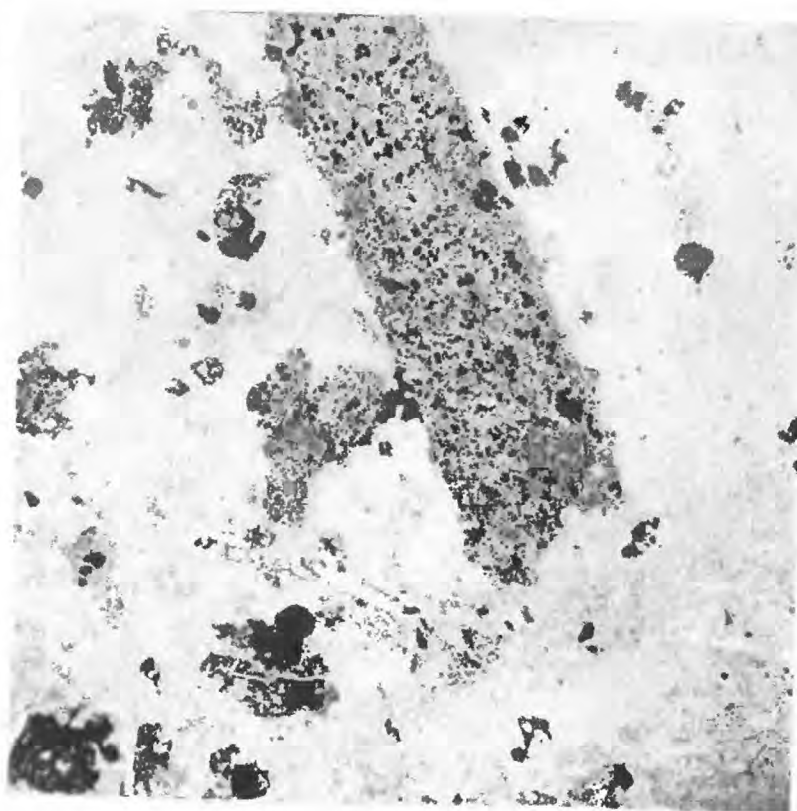
A



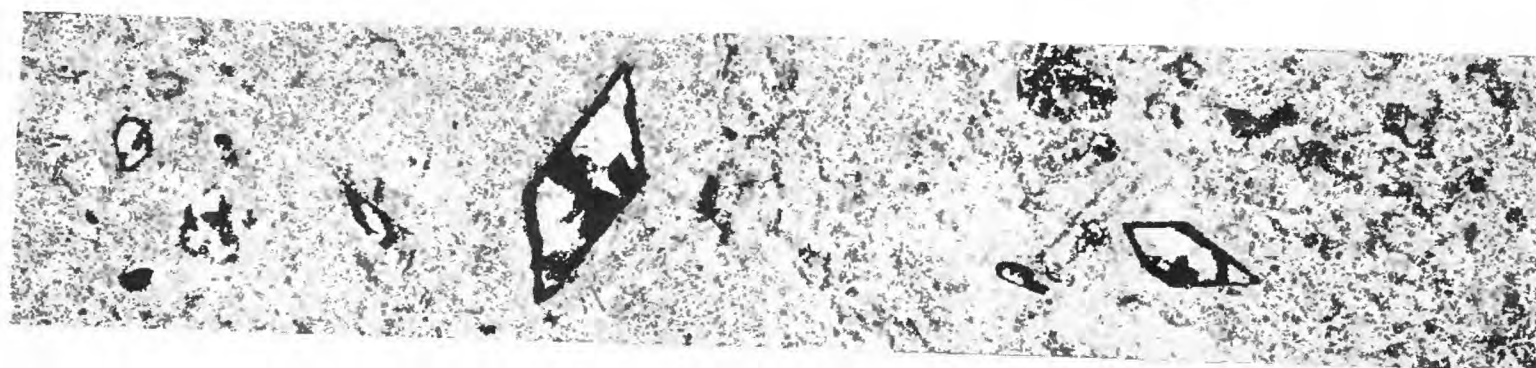
B



C

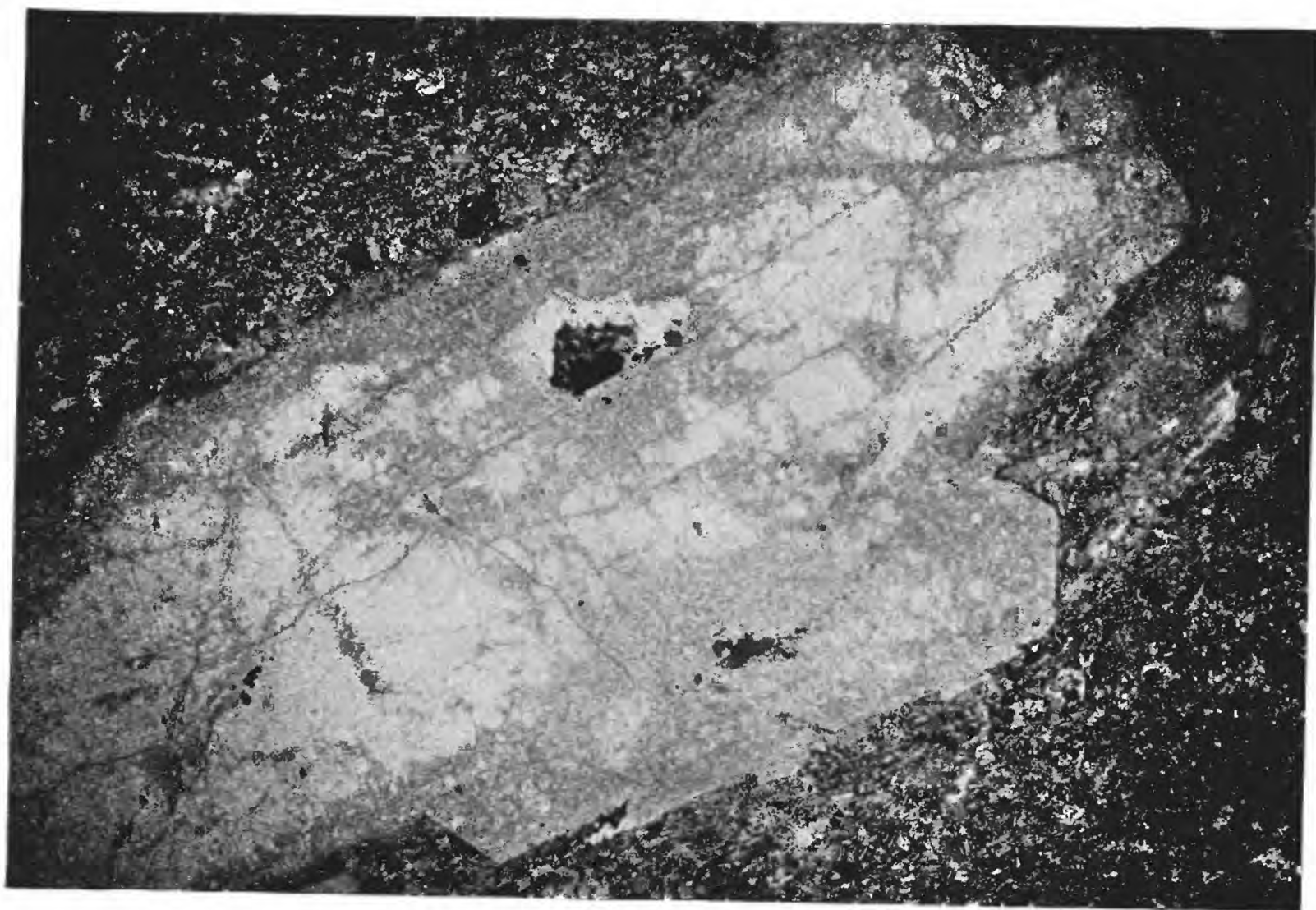


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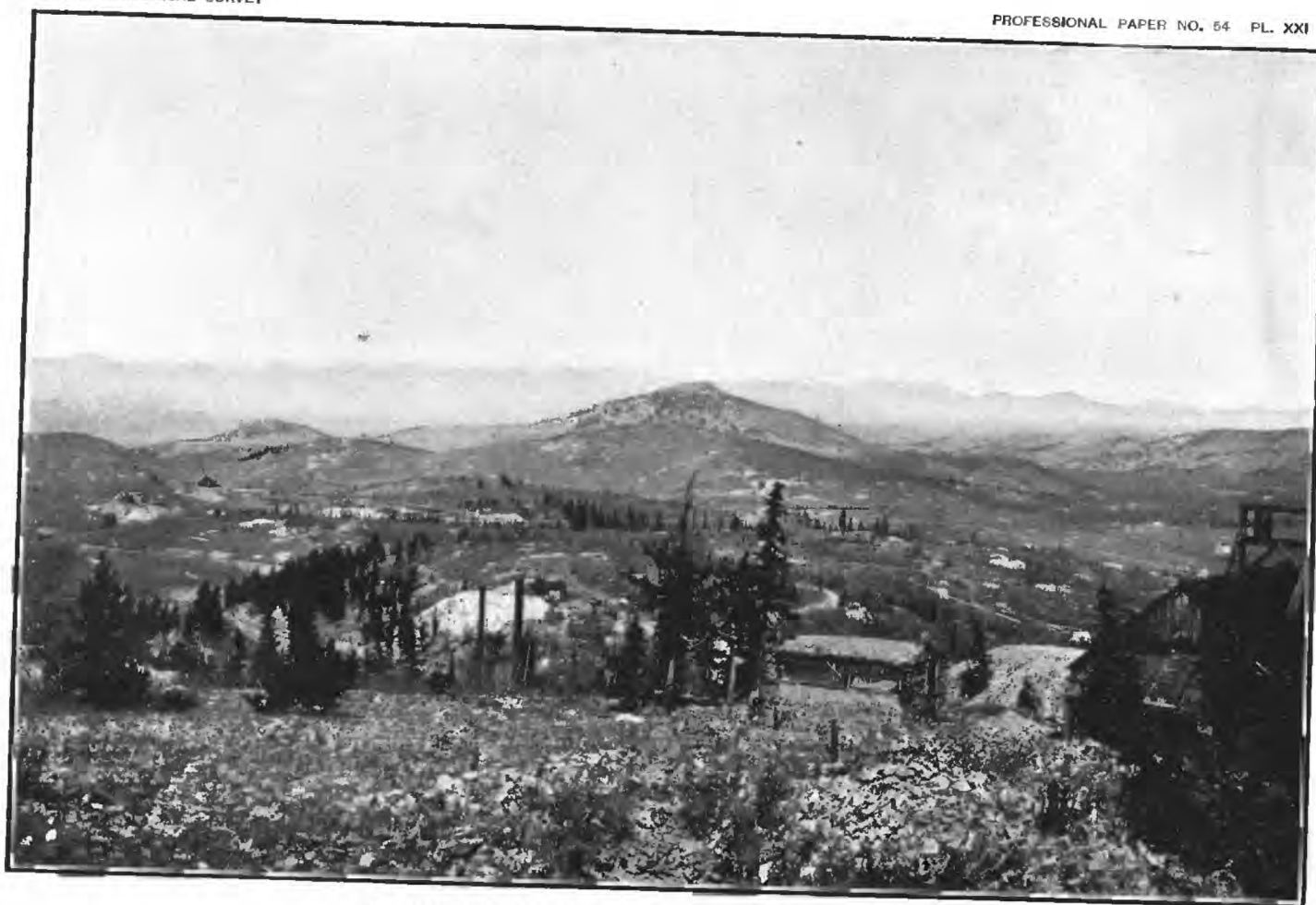


E

PHOTOMICROGRAPHS OF ORES.



PHOTOMICROGRAPHS OF ORES.

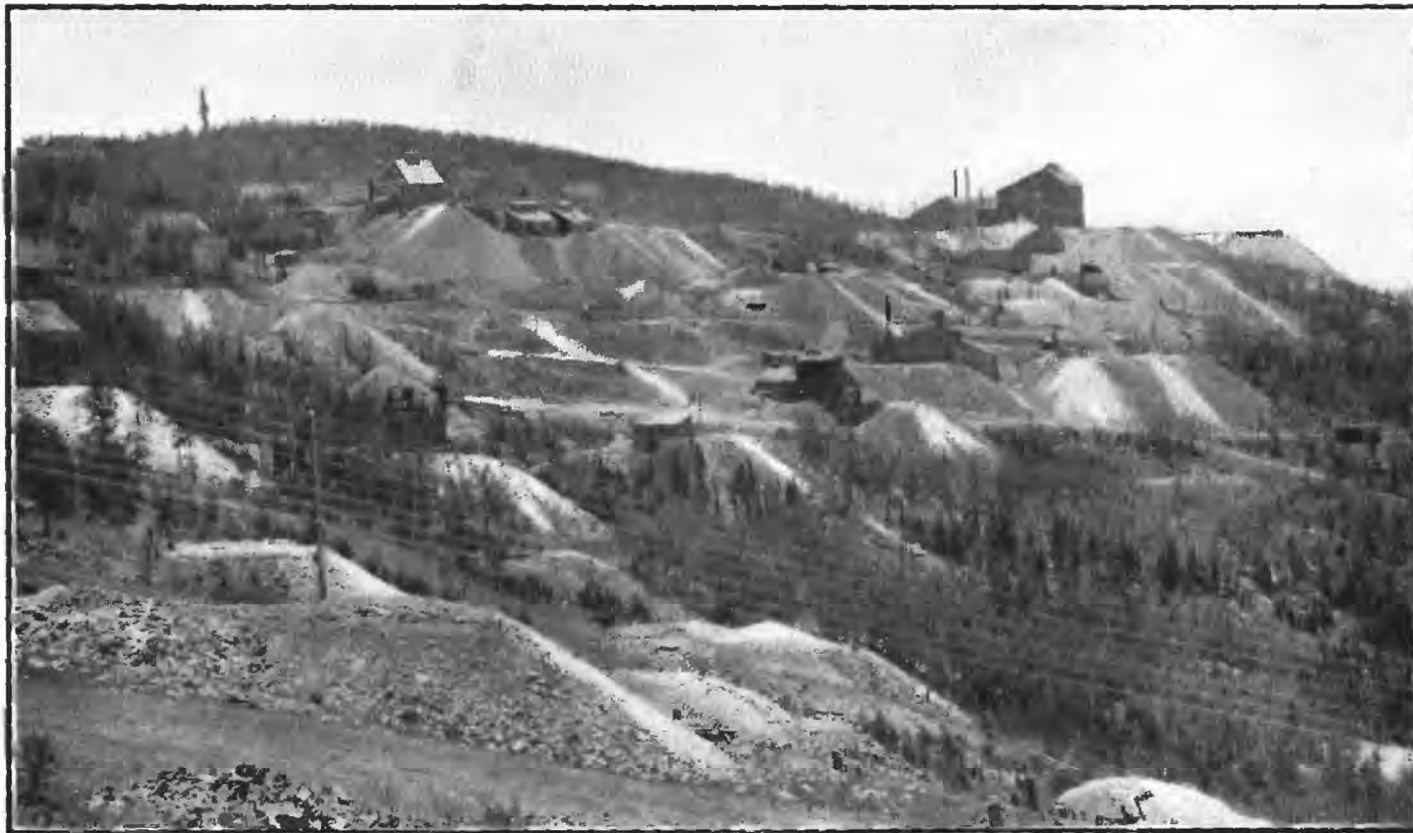


A. RHYOLITE MOUNTAIN, FROM SUMMIT OF BULL HILL.



B. PIKES PEAK, FROM SUMMIT OF BULL HILL.

Town of Gillett in left middle-ground.



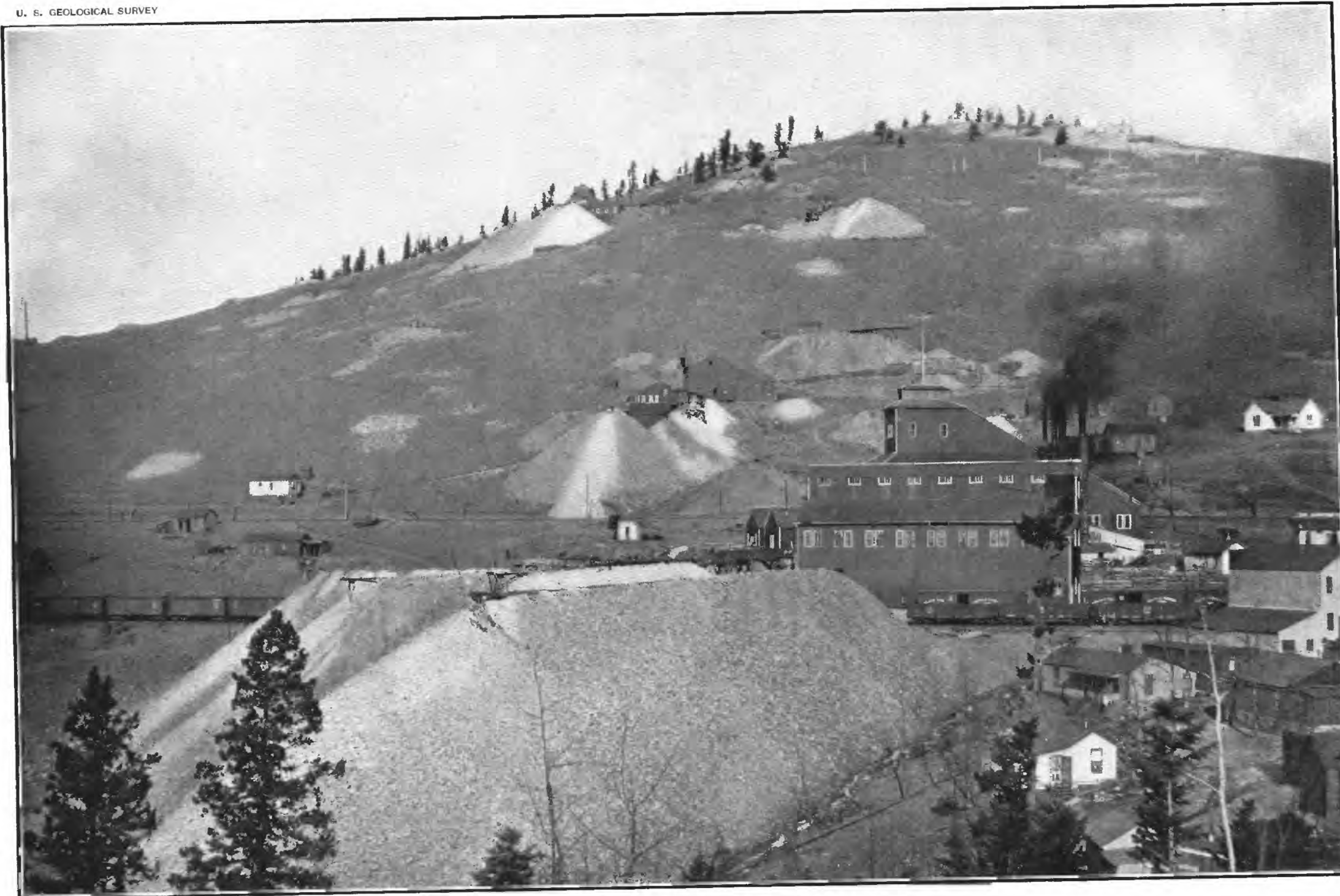
1. NORTH SLOPE OF GOLD HILL.

Anchoria-Leland mine on right; Half Moon mine on left.

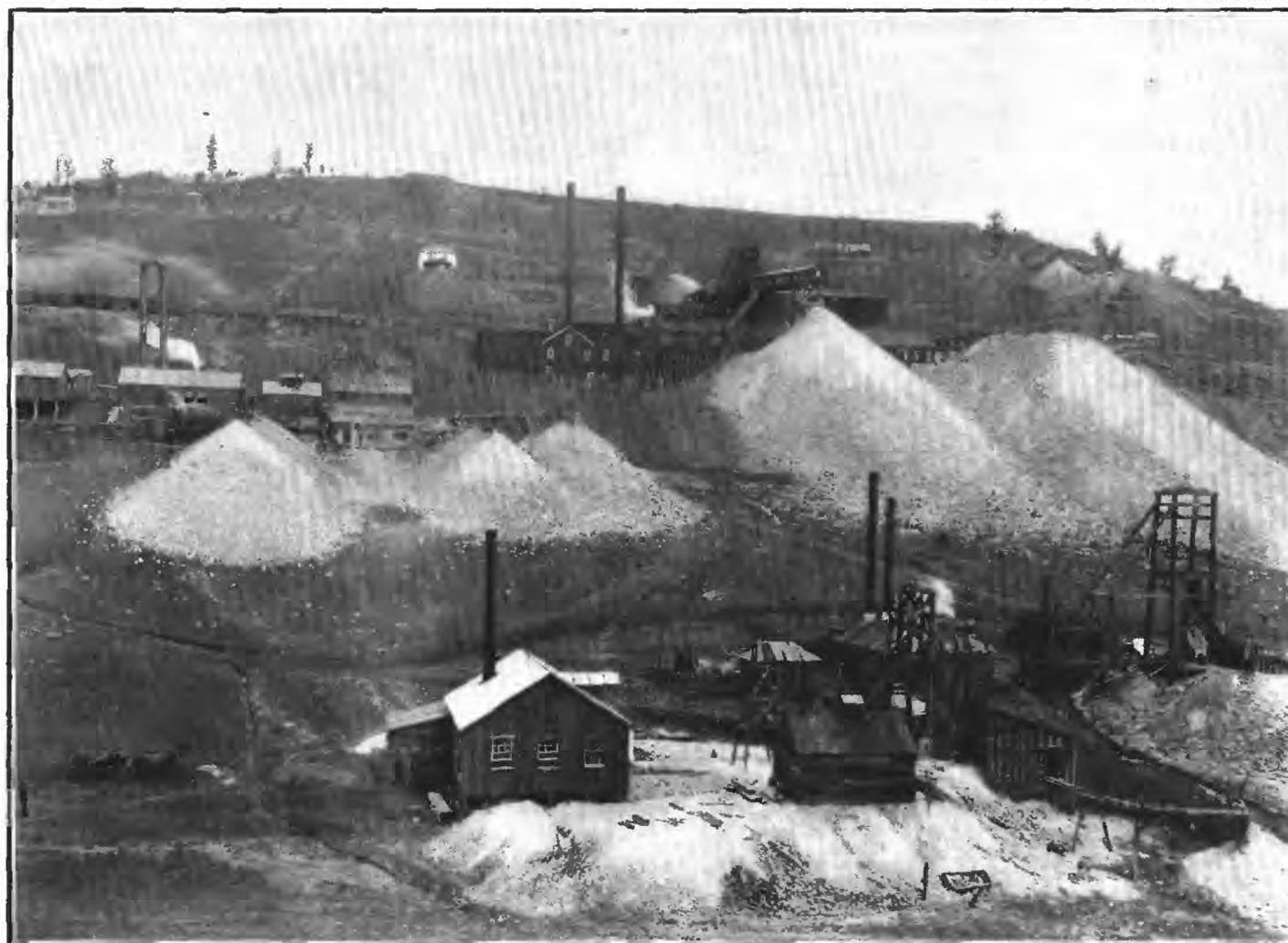


B. WEST SLOPE OF RAVEN HILL.

Showing Doctor-Jackpot and Morning Glory group of mines.



ELKTON MINE AND SOUTH SLOPE OF RAVEN HILL.
Main Elkton shaft in foreground; Tornado shaft on sky line.



A. MINES ON BEACON HILL.

The El Paso is high up in the center; the C. K. & N. to left in the middle-ground; the Henry Adney and Old Gold in the middle and right foreground, respectively.

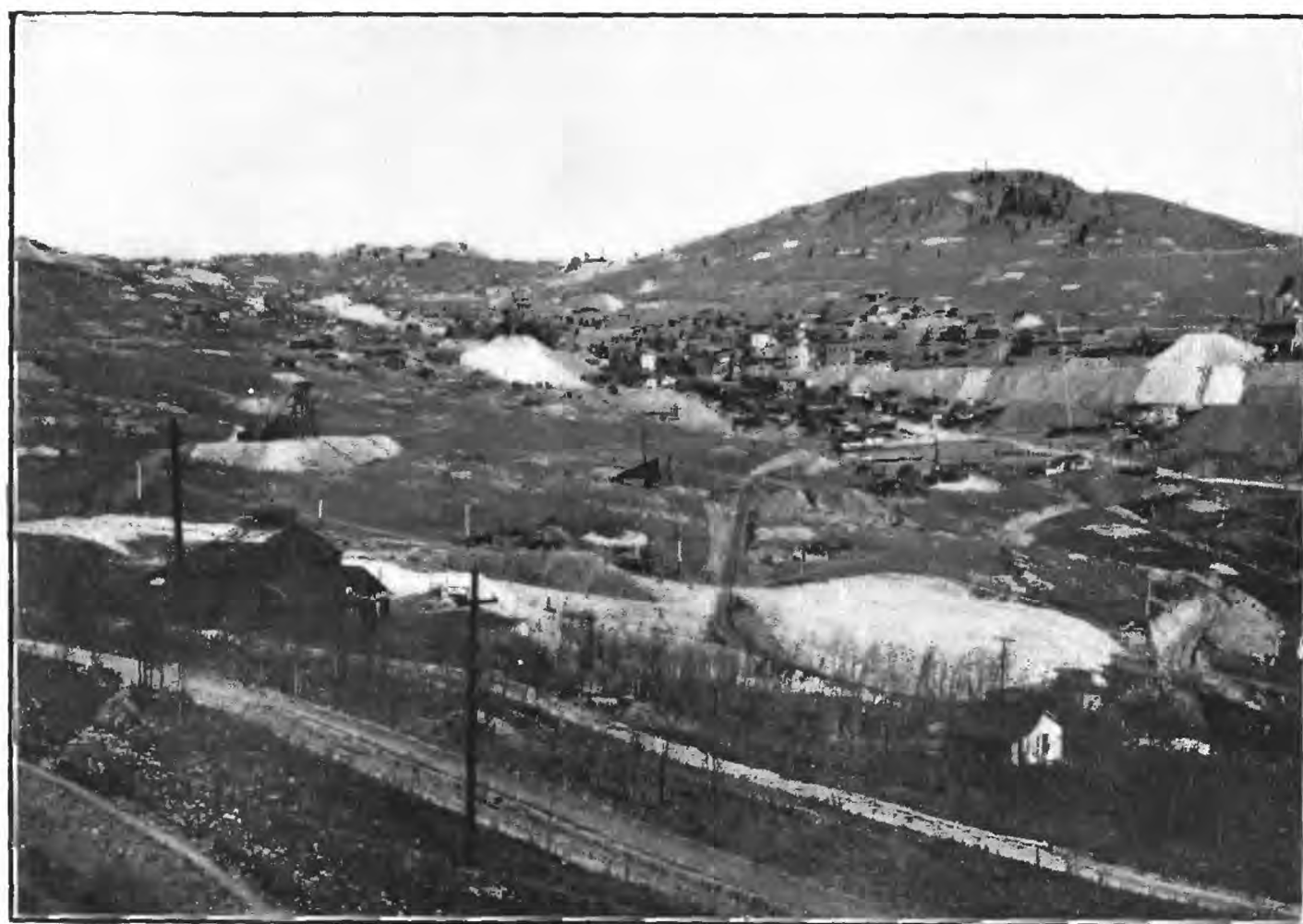


B. BEACON AND GROUSE HILLS, FROM RAVEN HILL.



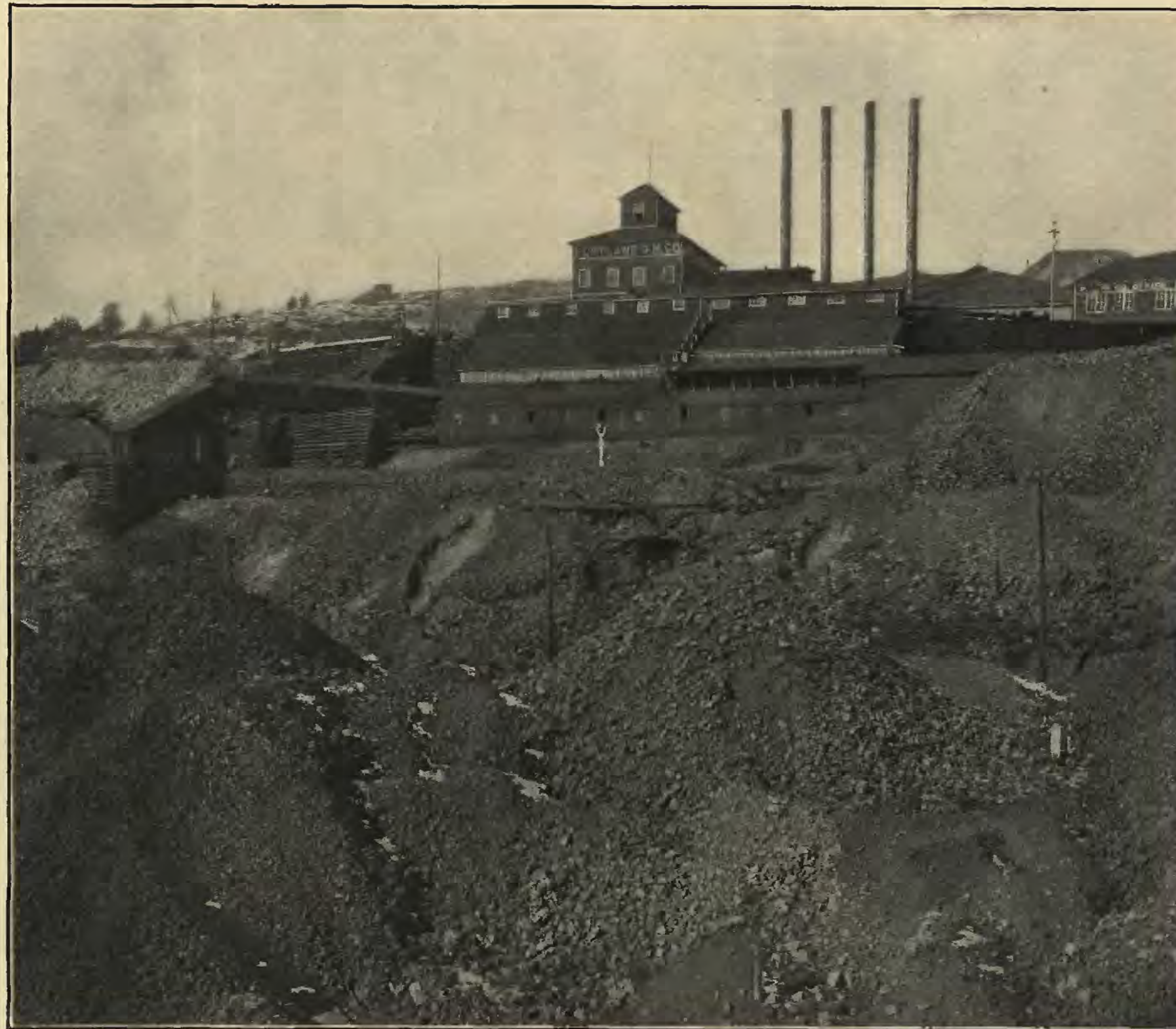
A. SOUTH SLOPE OF BULL HILL, FROM SQUAW MOUNTAIN.

Pikes Peak in distance.



B. BULL CLIFF AND TOWN OF INDEPENDENCE.

Vindicator mine to right.



THE PORTLAND MINE, FROM THE SOUTH.

GEOLOGIC MAP
OF THE 500-FOOT LEVEL
OF THE
PORTLAND MINE
COLORADO

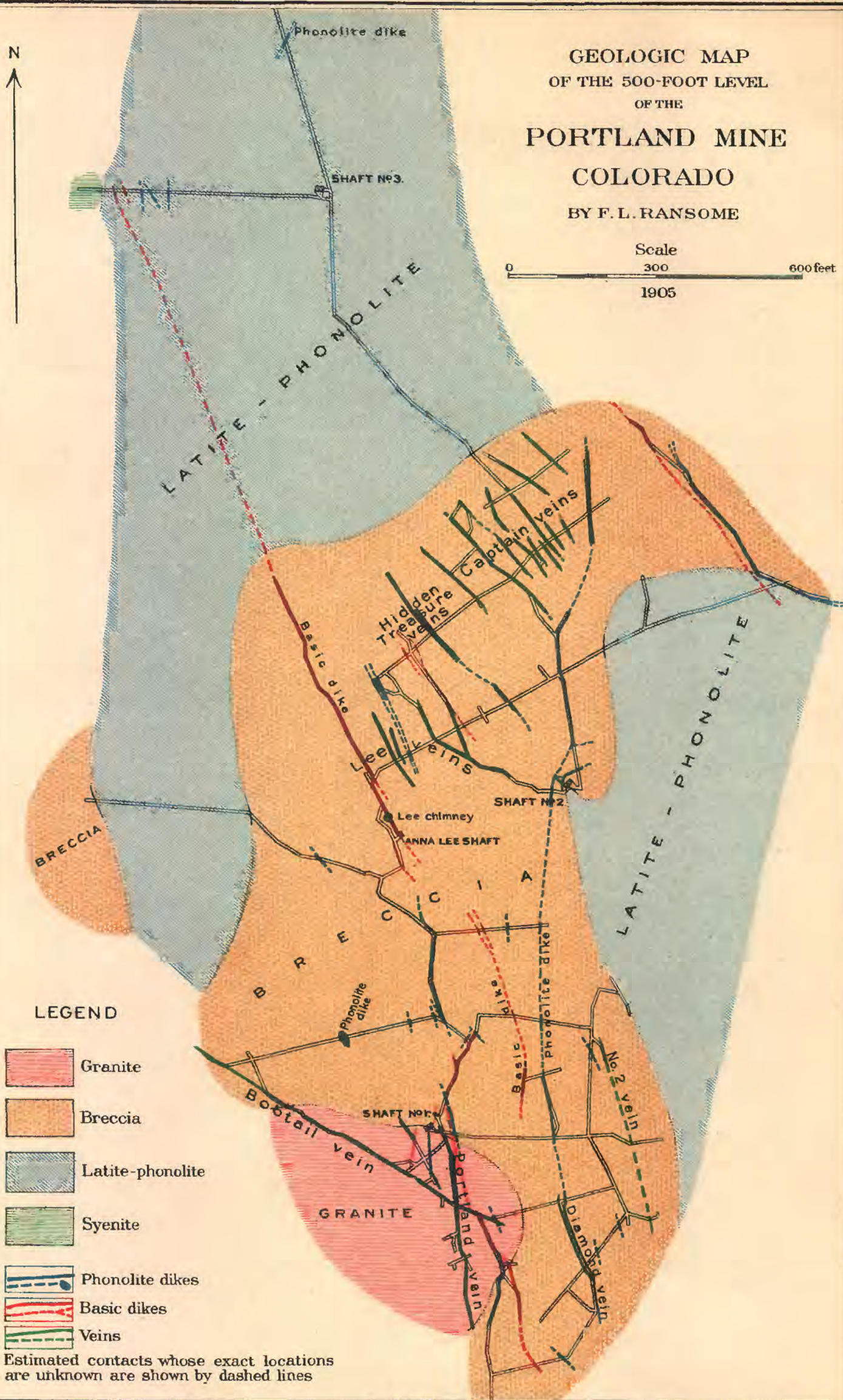
BY F. L. RANSOME

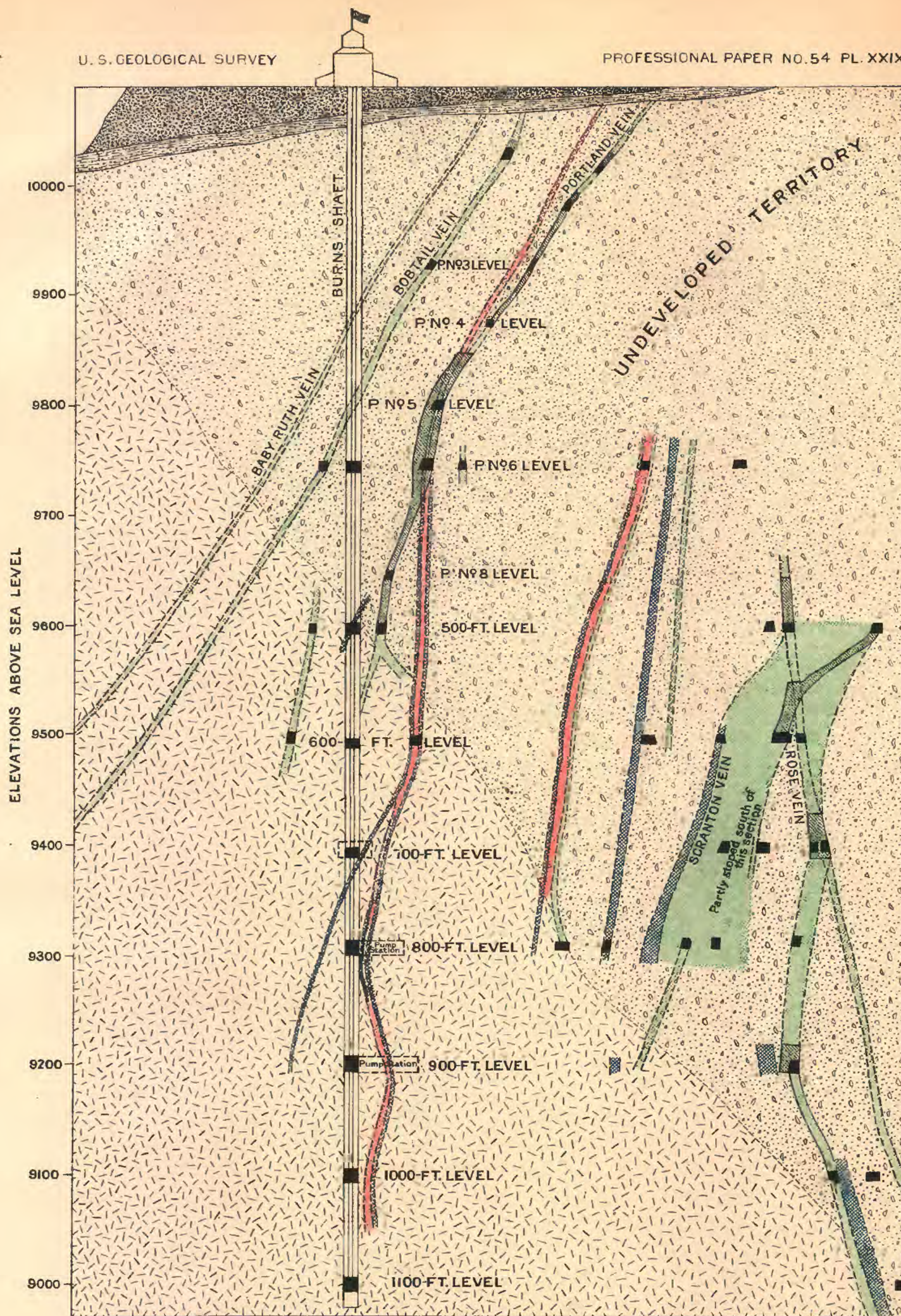
Scale

0 300 600 feet

1905

N

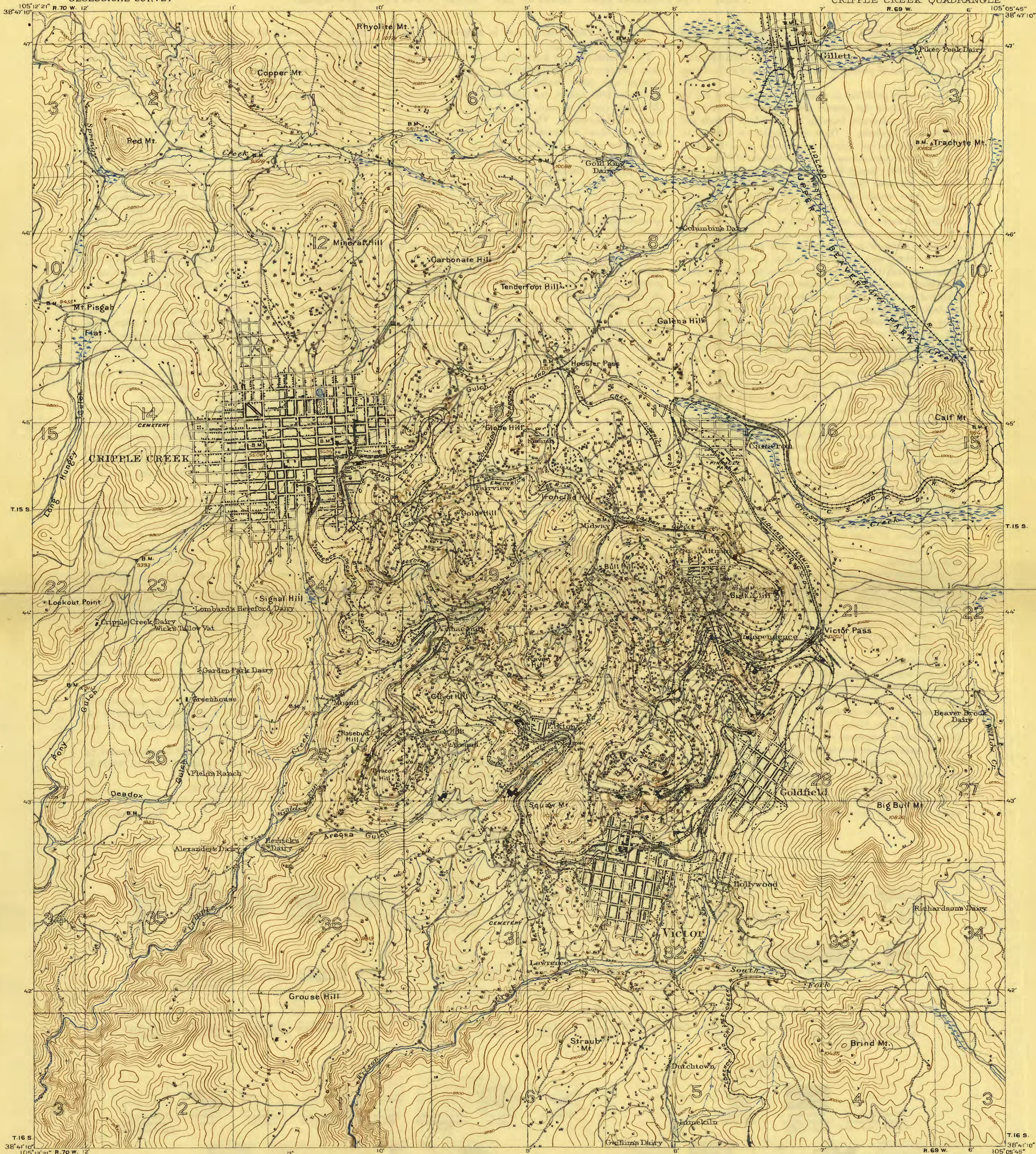




VERTICAL SECTION THROUGH THE BURNS SHAFT, PORTLAND MINE, SHOWING BRECCIA CONTACT, VEINS, AND DIKES
AFTER V. G. HILLS

Scale
0 100 200 300 feet





Henry Gannett, Chief Topographer.
Topography by W. B. Corse, T. M. Bannon and E. M. Douglas.
Triangulation by E. M. Douglas.
Surveyed in 1894.
Revised in 1902-1903 by R. T. Evans.
E. M. Douglas, Geographer in charge.

APPROXIMATE MEAN
DECLINATION 1902

Scale 25000
0 1 2 Miles
0 1 2 Kilometers
Contour interval 50 feet.
Datum is mean sea level.

Polyconic projection. To place on North American datum
move projection lines 100 feet north and 900 feet east

CRIPPLE CREEK, COLO.
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